

## Vision Guidance for Epson Robots

- Advanced Integrated Vision Solution
- Industry Leading Ease of Use
- Point and Click User Interface for Fast Development
- Low Cost and High Performance
- Easy Integration with .NET or GUI Builder to provide powerful GUI based systems
- Industry Leading Vision Guidance Tools
- Integrated Robot Calibration Features
- Tight Integration with EPSON RC+
- Correlation, Geometric Search, Blob Analysis, Edge Detection, Polar Search and much more
- Integrated Wizards Reduce Development Time



### Powerful Vision Solution at a Value Price

The EPSON CV1 Vision System provides powerful vision tools at a value price. With ultra fast processing and the industry leading EPSON Vision Guide software tool set and development environment vision guidance applications are faster and easier to develop than ever. At the heart of Vision Guide is the unique object based point and click interface which allows developers to quickly and easily develop applications in hours vs. weeks or longer. No time is wasted writing code to make the robot and vision system communicate and there is no need to learn 2 separate environments and languages (vision + robot) since Vision Guide runs within the EPSON RC+ Robot Development Environment.

While easy to use, the CV1 with Vision Guide is also packed with high performance vision tools designed to help solve the toughest of vision related applications. The EPSON CV1 vision system has a high speed Ethernet interface and works with any of our 3 powerful robot controllers (RC90, RC180 or PC Based RC620+) once again giving you the power of choice to select the right controller for your application. With support for up to 2 cameras, both 640x480 and 1280x1024 camera resolutions are available. Cameras can be mounted as fixed or mobile configurations and high flex cables are included as standard equipment. Only the EPSON CV1 provides powerful vision guidance solutions at an incredible value based price. Let us help you with your next vision guided robotics application today.

# EPSON CV1 Specifications



Camera Model	NS1011BU (Mobile Camera)	NS4133BU (Mobile Camera)
Resolution	640 x 480	1280 x 1024
Lens Type	C Mount	
Mounting Options	Cameras can be mounted as fixed or mobile mount (end of arm)	
Camera Cable	High Flex USB 5M	
Communications Interface	Ethernet (100 Mbps)	
Image Operation Tools	Open, Close, Erode, Dilate, Sharpen, Smooth, Flip, Rotate, etc.	
Vision Tools	Geometric Pattern Matching, Correlation Pattern Matching, Polar Searching, BLOB Detection, Edge Detection, Frames, Lines, Points, Histogram, Statistics...	
Robot / Camera Calibrations	Mobile, Fixed Upward, Fixed Downward (all wizard based)	
Dimensions (mm):		
Camera (without lens)	15 (W) x 33 (D) x 30.5 (H)	
CV1 Vision Processor	190 (W) x 197 (D) x 63 (H)	
Weight:		
Camera (without lens)	50 g	
CV1 Vision Processor	1.5 kg	
Operating Temperature	5 to 40 deg. C	
Power Supply / Consumption	24V DC +/-5% @ 2A / 48W	
Connectors	2 USB, 1 Ethernet	
Certifications	CE, RoHS	
Available Controllers	Micro PowerDrive RC180 PC Based Controller RC620+ RC90 Controller	
Options	Lens Kits, Camera Extension Tube, Power Supply, Additional Cameras, Robot Camera Brackets	

**Available  
with 3 Different  
Controllers**



**Micro PowerDrive  
RC180**



**PC Based Controller  
RC620+**



**RC90 Controller**



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